

**CPH 682-001: Quantitative Methods
Team Project #2**

**Fall 2018
Dr. Charnigo**

The workbook {WB2CPH682F18.xlsx} contains data for this project and will also be the file in which you type your answers. Please save the file with all of your answers under the filename {WB2CPH682F18 LN1 LN2 LN3 LN4.xlsx} and upload the final version into Canvas. Above, LN1 is your last name, while LN2 through LN4 are the last names of your other group members. (Groups with only three persons will have only three last names, obviously.) Members of the same group will have identical files except for the order of the last names in the filename.

[10] 1. See Sheet 1, which contains some fictional data regarding hospital admissions. Complete column B by typing an appropriate formula into cell B2 and dragging it down.

[10] 2. Complete column E by typing an appropriate formula into cell E2 and dragging it down. Which result looks incorrect? (You may assume that, for this result, the entries in columns C and D were accidentally transposed.)

[10] 3. Complete column F by typing an appropriate formula into cell F2 and dragging it down.

[10] 4. Complete column G by typing an appropriate formula into cell G2 and dragging it down.

[10] 5. See Sheet 2, which contains some fictional data on 20 subjects to be randomized to intervention or control condition; note that 10 of the subjects are UK students and 10 are not. Use the RAND() command to assign 10 of them to intervention and 10 of them to control condition.

[10] 6. Use the RAND() command to assign 10 of the subjects to intervention and 10 to control condition, but this time stratify by status as a UK student.

[10] 7. Use the RAND() command to assign 10 of the subjects to intervention and 10 to control condition, but this time use permuted blocks of size four.

[10] 8. See Sheet 3, which contains some fictional data on 12 UK seniors. Construct a histogram of the GPA's with four bins; choose the lower and upper thresholds of the bins sensibly.

[10] 9. Use a pivot table to show the frequency with which each college appears.

[10] 10. Use a pivot table to show the frequency with which each college appears by gender.